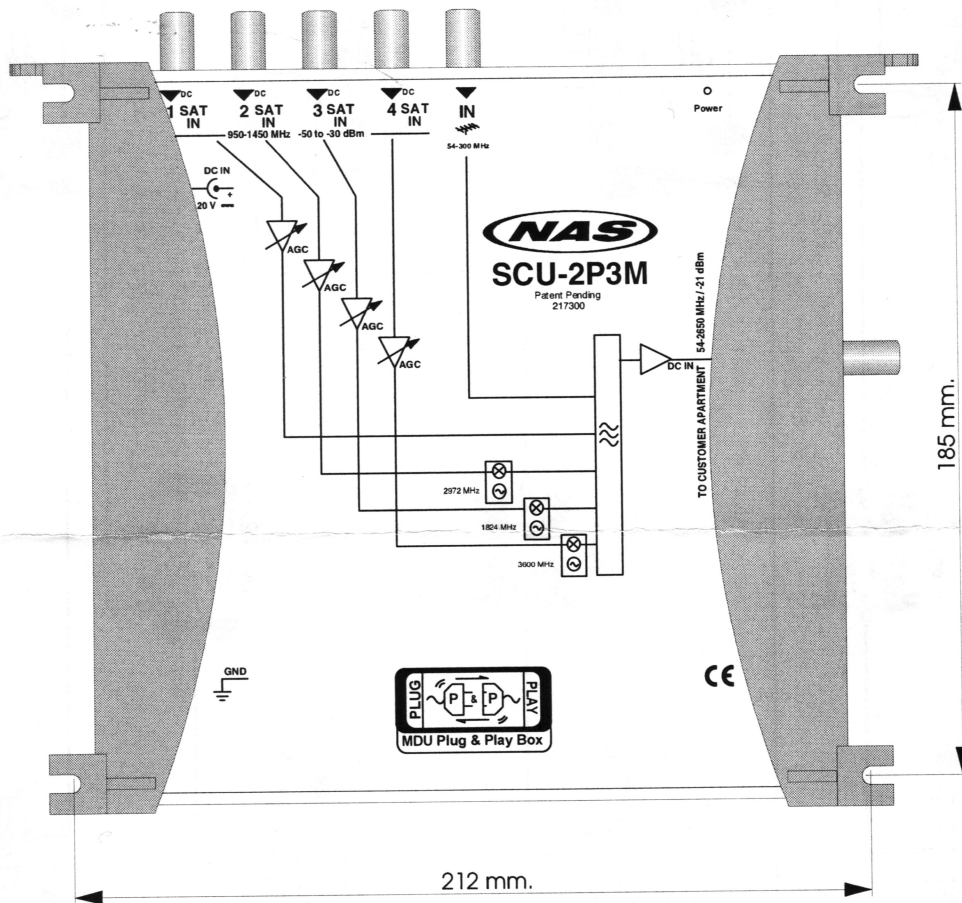


Riser-Up Converter

Item # 217300

SCU-2P3M

Patent Pending



Technical Specifications

Number of output	1
Number of inputs	SAT : 4 / VHF : 1
Input Frequency	
* Satellite By-pass	950 - 1450 MHz
* Satellite Converted	3 x 950 - 1450 MHz
* VHF	54 - 300 MHz
Output Frequency	54 - 2650 MHz
PLL Local Oscillator @ 20 °C	
* 1st LO	2972 MHz ± 0.3 MHz
* 2nd LO	1824 MHz ± 0.3 MHz
* 3rd LO	3600 MHz ± 0.3 MHz
Gain	
* Dynamic range AGC	20 dB
* By-pass	26 dB ± 3 dB
* LO 2972 MHz band	27 dB ± 3 dB
* LO 1824 MHz band	24 dB ± 3 dB
* LO 3600 MHz band	28 dB ± 3 dB
* VHF	14 dB ± 2 dB
Flatness	±0.5 dB Max. @ 24 MHz
Input level	
* By-pass satellite, 16 carriers	-50.0 dBm to -30.0 dBm
* Converted satellite, 16 carriers	-50.0 dBm to -30.0 dBm
Max. Output level	
* Satellite, 64 carriers	-21 dBm
* VHF (IM3, 54 dB / 2 carriers)	44 dBmV

LO Frequency Temperature Drift	<5 kHz / °C
Phase Noise	-50 dBc @ 1 kHz -76 dBc @ 10 kHz -85 dBc @ 100 kHz
LO Leakage (in-band)	-50 dBm Max.
Input Return Loss	
* By-pass satellite	>8.0 dB, Typ. 10.0 dB
* Converted satellite	>8.0 dB, Typ. 10.0 dB
* VHF	>8.0 dB, Typ. 10.0 dB
Output Return Loss	
* By-pass satellite	>8.0 dB, Typ. 10.0 dB @ 962-1423 MHz
* Converted satellite	>8.0 dB, Typ. 10.0 dB @ 401-862 MHz, 1534-2623 MHz
* VHF	>8.0 dB, Typ. 10.0 dB @ 54-300 MHz
Isolation	
* Between satellite inputs	>30 dB
* Between satellite and VHF inputs	>30 dB
Power required	20 VDC from Headend via output or external power adapter
DC Power Jack	2.5 mm.
Power consumption	500 mA Max. @ 20 VDC
Environmental requirement	Indoor and outdoor applications (for outdoor applications the special plastic housing is required)
Operating Temperature Range	-34 to +60°C
Connectors	"F" High Quality, conical seize
Dimensions	243 mm x 214 mm x 93 mm

Headend

Distribution

User

